
Subject: how can I read many columns and rows
Posted by [Ali Gamal](#) on Tue, 29 Mar 2016 18:20:59 GMT
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Hi everyone,
I have data file contains 30 column, every column contains 20 row. How can I read this file ?

Subject: Re: how can I read many columns and rows
Posted by [Paul Van Delst\[1\]](#) on Tue, 29 Mar 2016 18:53:45 GMT
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If you want to roll your own reader you can have a look at:
<http://www.harrisgeospatial.com/docs/READ.html>
And this can be helpful
http://www.harrisgeospatial.com/docs/FILE_LINES.html

If you want to get a little you can try
http://www.harrisgeospatial.com/docs/ASCII_TEMPLATE.html
and then
http://www.harrisgeospatial.com/docs/READ_ASCII.html

On 03/29/16 14:20, Ali Gamal wrote:

> Hi everyone,
> I have data file contains 30 column, every column contains 20 row. How can I read this file ?
>

Subject: Re: how can I read many columns and rows
Posted by [Nikola](#) on Wed, 30 Mar 2016 09:35:18 GMT
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On Tuesday, March 29, 2016 at 7:21:02 PM UTC+1, Ali Gamal wrote:

> Hi everyone,
> I have data file contains 30 column, every column contains 20 row. How can I read this file ?

If all values are of the same type it's trivial:

```
a = fltarr(30, 20)
OPENR, 1, filename
READF, 1, a
CLOSE, 1
```

Subject: Re: how can I read many columns and rows
Posted by [Ali Gamal](#) on Wed, 30 Mar 2016 14:25:46 GMT

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On Tuesday, March 29, 2016 at 8:21:02 PM UTC+2, Ali Gamal wrote:

> Hi everyone,

> I have data file contains 30 column, every column contains 20 row. How can I read this file ?

OK, If I want to make operations on specific column how can I do it

Subject: Re: how can I read many columns and rows

Posted by [Fabzi](#) on Wed, 30 Mar 2016 20:28:10 GMT

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On 03/30/2016 04:25 PM, Ali Gamal wrote:

> OK, If I want to make operations on specific column how can I do it

You are lucky, IDL is an array programming language! For example, you can do:

```
out = column1 * column1 + column2
```

Subject: Re: how can I read many columns and rows

Posted by [Ali Gamal](#) on Thu, 31 Mar 2016 13:33:01 GMT

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On Tuesday, March 29, 2016 at 8:21:02 PM UTC+2, Ali Gamal wrote:

> Hi everyone,

> I have data file contains 30 column, every column contains 20 row. How can I read this file ?

thank you, but how can I define column1, column2 in my program

Subject: Re: how can I read many columns and rows

Posted by [Ali Gamal](#) on Thu, 31 Mar 2016 14:55:01 GMT

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On Tuesday, March 29, 2016 at 8:21:02 PM UTC+2, Ali Gamal wrote:

> Hi everyone,

> I have data file contains 30 column, every column contains 20 row. How can I read this file ?

I have file data contains many columns, I want to know How can I read this file?, then how can I define each column to use this column in mathematical operations?.

Subject: Re: how can I read many columns and rows

Posted by [wlandsman](#) on Thu, 31 Mar 2016 16:39:30 GMT

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On Thursday, March 31, 2016 at 10:55:03 AM UTC-4, Ali Gamal wrote:

> On Tuesday, March 29, 2016 at 8:21:02 PM UTC+2, Ali Gamal wrote:

>> Hi everyone,

>> I have data file contains 30 column, every column contains 20 row. How can I read this file ?
>

> I have file data contains many columns, I want to know How can I read this file?, then how can I define each column to use this column in mathematical operations?.

Several previous posters already told you how to read the data into an array.

Once you have an array, arr, then you can, for example, select the 6th column

```
column5 = arr[5,*]
```

Subject: Re: how can I read many columns and rows

Posted by [Ali Gamal](#) on Thu, 31 Mar 2016 17:38:03 GMT

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On Tuesday, March 29, 2016 at 8:21:02 PM UTC+2, Ali Gamal wrote:

> Hi everyone,

> I have data file contains 30 column, every column contains 20 row. How can I read this file ?

when I run my IDL program

```
.....  
a = fltarr(6, 50)  
OPENR, 1, 'H:\a.dat'  
READF, 1, a  
CLOSE, 1  
column5=a[5,*]  
print,column5  
end
```

```
.....  
it does not print whole column 6 but it print half of column then repeat it as
```

```
3910.30  
3939.00  
3987.40  
4052.60  
4119.90  
4187.30  
4255.50  
4316.80  
4381.10  
4448.40  
4505.70
```

4568.90
4624.30
4680.70
4755.30
4846.50
4963.10
5124.50
5308.60
5564.50
6038.90
6617.80
7283.90
8065.40
8500.00

..... it repeat again

3910.30
3939.00
3987.40
4052.60
4119.90
4187.30
4255.50
4316.80
4381.10
4448.40
4505.70
4568.90
4624.30
4680.70
4755.30
4846.50
4963.10
5124.50
5308.60
5564.50
6038.90
6617.80
7283.90
8065.40
8500.00

.....

what is the problem

Subject: Re: how can I read many columns and rows
Posted by [wlandsman](#) on Thu, 31 Mar 2016 18:50:44 GMT
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I would check your assumptions. For example, you previously told us that your array contained 30 columns, 20 rows. But for some reason you dimension your array `fltarr(6,50)`, which has 300 elements instead of 600. Maybe that is why only half the column is being read?

On Thursday, March 31, 2016 at 1:38:05 PM UTC-4, Ali Gamal wrote:

> On Tuesday, March 29, 2016 at 8:21:02 PM UTC+2, Ali Gamal wrote:

>> Hi everyone,

>> I have data file contains 30 column, every column contains 20 row. How can I read this file ?

>

> when I run my IDL program

>
> ;;;;;;;;;;;;;;;;;;

> `a = fltarr(6, 50)`

> `OPENR, 1, 'H:\a.dat'`

> `READF, 1, a`

> `CLOSE, 1`

> `column5=a[5,*]`

> `print,column5`

> `end`

>
> ;;;;;;;;;;;;;;;;;;

> it does not print whole column 6 but it print half of column then repeat it as

> 3910.30

> 3939.00

> 3987.40

> 4052.60

> 4119.90

> 4187.30

> 4255.50

> 4316.80

> 4381.10

> 4448.40

> 4505.70

> 4568.90

> 4624.30

> 4680.70

> 4755.30

> 4846.50

> 4963.10

> 5124.50

> 5308.60

> 5564.50

> 6038.90

> 6617.80

> 7283.90

> 8065.40

> 8500.00

> it repeat again

> 3910.30

> 3939.00

> 3987.40
> 4052.60
> 4119.90
> 4187.30
> 4255.50
> 4316.80
> 4381.10
> 4448.40
> 4505.70
> 4568.90
> 4624.30
> 4680.70
> 4755.30
> 4846.50
> 4963.10
> 5124.50
> 5308.60
> 5564.50
> 6038.90
> 6617.80
> 7283.90
> 8065.40
> 8500.00
>
> what is the problem

Subject: Re: how can I read many columns and rows
Posted by [Ali Gamal](#) on Thu, 31 Mar 2016 19:50:53 GMT
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On Tuesday, March 29, 2016 at 8:21:02 PM UTC+2, Ali Gamal wrote:

> Hi everyone,
> I have data file contains 30 column, every column contains 20 row. How can I read this file ?

I change dimension to array fltarr(6,50) for test only. It is another file. my new file is 6 columns and every column contains 50 row. I guess this problem because my data as this form

```
1.402E+00 3.700E-01 1.443E+00
1.403E+00 3.711E-01 1.443E+00
1.405E+00 3.724E-01 1.442E+00
1.406E+00 3.740E-01 1.442E+00
1.408E+00 3.762E-01 1.441E+00
1.411E+00 3.789E-01 1.440E+00
1.415E+00 3.823E-01 1.439E+00
1.417E+00 3.862E-01 1.438E+00
1.417E+00 3.907E-01 1.437E+00
1.418E+00 3.962E-01 1.436E+00
```

1.419E+00	4.026E-01	1.435E+00
1.415E+00	4.097E-01	1.435E+00
1.411E+00	4.180E-01	1.434E+00
1.407E+00	4.275E-01	1.432E+00
1.400E+00	4.382E-01	1.431E+00
1.392E+00	4.503E-01	1.428E+00
1.382E+00	4.639E-01	1.424E+00
1.371E+00	4.790E-01	1.418E+00
1.359E+00	4.959E-01	1.412E+00
1.344E+00	5.145E-01	1.404E+00
1.326E+00	5.346E-01	1.394E+00
1.307E+00	5.567E-01	1.383E+00
1.286E+00	5.806E-01	1.370E+00
1.263E+00	6.063E-01	1.355E+00
1.237E+00	6.335E-01	1.337E+00
1.209E+00	6.622E-01	1.318E+00
1.179E+00	6.919E-01	1.296E+00
1.149E+00	7.221E-01	1.272E+00
1.119E+00	7.526E-01	1.246E+00
1.089E+00	7.823E-01	1.219E+00
1.059E+00	8.107E-01	1.191E+00
1.031E+00	8.372E-01	1.162E+00
1.005E+00	8.614E-01	1.134E+00
9.806E-01	8.824E-01	1.106E+00
9.610E-01	9.012E-01	1.081E+00
9.449E-01	9.169E-01	1.058E+00
9.325E-01	9.294E-01	1.038E+00
9.230E-01	9.387E-01	1.021E+00
9.179E-01	9.466E-01	1.008E+00
9.176E-01	9.556E-01	9.970E-01
9.257E-01	9.701E-01	9.891E-01
9.398E-01	9.859E-01	9.856E-01
9.561E-01	9.982E-01	9.862E-01
9.735E-01	1.007E+00	9.895E-01
9.848E-01	1.007E+00	9.932E-01
9.944E-01	1.008E+00	9.963E-01
9.997E-01	1.006E+00	9.984E-01
1.002E+00	1.004E+00	9.997E-01
1.001E+00	1.002E+00	1.000E+00
1.000E+00	1.000E+00	1.001E+00

1.455E+00	1.461E+00	1.456E+00
1.409E+00	1.429E+00	1.432E+00
1.369E+00	1.395E+00	1.401E+00
1.333E+00	1.360E+00	1.367E+00
1.289E+00	1.314E+00	1.321E+00

```

1.242E+00 1.261E+00 1.267E+00
1.186E+00 1.198E+00 1.201E+00
1.142E+00 1.146E+00 1.147E+00
1.102E+00 1.100E+00 1.098E+00
1.058E+00 1.047E+00 1.042E+00
1.014E+00 9.957E-01 9.876E-01
9.876E-01 9.647E-01 9.546E-01
9.587E-01 9.302E-01 9.180E-01
9.295E-01 8.953E-01 8.807E-01
9.092E-01 8.706E-01 8.543E-01
8.895E-01 8.466E-01 8.285E-01
8.713E-01 8.242E-01 8.044E-01
8.565E-01 8.060E-01 7.847E-01
8.426E-01 7.887E-01 7.660E-01
8.313E-01 7.746E-01 7.507E-01
8.274E-01 7.691E-01 7.445E-01
8.247E-01 7.652E-01 7.400E-01
8.238E-01 7.635E-01 7.380E-01
8.241E-01 7.636E-01 7.379E-01
8.311E-01 7.715E-01 7.462E-01
8.412E-01 7.835E-01 7.589E-01
8.544E-01 7.995E-01 7.760E-01
8.702E-01 8.190E-01 7.970E-01
8.845E-01 8.373E-01 8.169E-01
9.003E-01 8.578E-01 8.393E-01
9.173E-01 8.804E-01 8.642E-01
9.356E-01 9.051E-01 8.915E-01
9.512E-01 9.270E-01 9.161E-01
9.727E-01 9.564E-01 9.487E-01
9.862E-01 9.764E-01 9.715E-01
1.002E+00 9.987E-01 9.967E-01
1.019E+00 1.024E+00 1.025E+00
1.044E+00 1.057E+00 1.061E+00
1.065E+00 1.085E+00 1.092E+00
1.076E+00 1.099E+00 1.108E+00
1.056E+00 1.075E+00 1.082E+00
1.031E+00 1.043E+00 1.048E+00
1.015E+00 1.022E+00 1.025E+00
9.997E-01 1.002E+00 1.002E+00
1.001E+00 1.002E+00 1.002E+00
9.950E-01 9.942E-01 9.939E-01
9.932E-01 9.921E-01 9.917E-01
9.928E-01 9.918E-01 9.915E-01
9.948E-01 9.942E-01 9.941E-01
9.966E-01 9.963E-01 9.962E-01

```

```

.....
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

```

I guess my program take column 1 and column 4 as one column. what is the true way to do it?

Subject: Re: how can I read many columns and rows
Posted by [Paul Van Delst\[1\]](#) on Thu, 31 Mar 2016 20:29:53 GMT
[View Forum Message](#) <> [Reply to Message](#)

On 03/31/16 15:50, Ali Gamal wrote:

> On Tuesday, March 29, 2016 at 8:21:02 PM UTC+2, Ali Gamal wrote:

>> Hi everyone,

>> I have data file contains 30 column, every column contains 20 row.

>> How can I read this file ?

>

> I change dimension to array fltarr(6,50) for test only. It is another

> file. my new file is 6 columns and every column contains 50 row. I guess

> this problem because my data as this form

>

> 1.402E+00 3.700E-01 1.443E+00

> 1.403E+00 3.711E-01 1.443E+00

[snip]

> 9.932E-01 9.921E-01 9.917E-01

> 9.928E-01 9.918E-01 9.915E-01

> 9.948E-01 9.942E-01 9.941E-01

> 9.966E-01 9.963E-01 9.962E-01

>

>

> I guess my program take column 1 and column 4 as one column. what is

> the true way to do it?

>

I couldn't find any primers online at Harris but you could have a look
at: http://www.harrisgeospatial.com/docs/idl_programming.html

Or, for reasonably priced books:

<http://www.amazon.com/Practical-IDL-Programming-Liam-Gumley/dp/1558607005>

or

http://www.idlcoyote.com/coyotestore/index.php?main_page=product_info&cPath=66&products_id=183

Please understand I'm not trying to be mean spirited here - I really
think you would benefit from some reading material about IDL programming.

cheers,

paulv

Subject: Re: how can I read many columns and rows
Posted by [Ali Gamal](#) on Fri, 01 Apr 2016 12:36:46 GMT
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On Tuesday, March 29, 2016 at 8:21:02 PM UTC+2, Ali Gamal wrote:

- > Hi everyone,
- > I have data file contains 30 column, every column contains 20 row. How can I read this file ?

OK, Thanks
